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To Whom It May Concern

The Chief of the Patent Office certifies that Mr. MOOSA EASA AL AMRI (Address :P.O.BOX 14427 – DOBY - UNITED ARAB EMIRATES) has filed application No 2003111021 on 05/11/2003 to obtain a patent for an invention titled :

“ SYSTEM AND METHOD TO BROADCAST THE VIDEO OR TV AND
DISPLAYING ON PC OR TV BY CHOOSING THE REQUIRED PROGRAM FROM
THE INTERNET “

The inventor of this application is Mr. MOOSA EASA AL AMRI

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**System and Method to broadcast the Video or TV and
displaying on PC or TV by choosing the required program
from the Internet.**

Abstract

System to broadcast the video or TV through the main authorization server connected with the internet to receive the required program through the internet, as the internet have a various sites such: News, Sports, Plays, Schools , business conferences , etc. from any requested party ask to enter to the web through the main authorization server by entering IP address and / or the code of the TV cable, digital cable or the code of the receiving decoder's chip through satellite to processing server, transferred to the main video server, then to distribution server which having the required subject and transferred it to the ordered through TV cable or digital cable or receiver through satellite whether to the ordered PC having TV card to watch the program, or in TV device.

Description

The invention relates to a system to send broadcast of video or TV channel in a clear way , with a new system for operation. Through an authorization server to processing server to the main video server which have live video, recorded video, or video on demand ready for the requested by a distribution server working through TV Broadcast and / or directed TV cable or through receiver connected with satellite , to end in the TV or PC with card to receive the TV channels.

Preamble

Watching the various events live on the TV or on the Internet having a huge and immediate effects on the public. There

are millions programs on the Digital TV channels and internet sites, there are an increased demand on these live events to keep the interest of the public. Also, the TV and Video commercials and the other commercials which covered the local events, having a huge effect on the public.

We noticed that the displayed video through the Internet on the PC screen stopped suddenly to reloaded , and this happened occasionally , also the picture and sound on the web always unclear. This matter encouraged us to find a solution for this problem , in order to receive a very clear pictures and sound from the network on the TV. We noticed the most available solutions costly , and the public mostly preferred the low cost solutions as 28 / 56 modems.

The high speed modem transfers the data in high rate , so , it saves the money and time , but generally the preferred solution by the public is the modem of 56 k byte , for that reason we provide this invention.

The Prior Art of the Invention

1-TV Cable

Cable operation companies currently reach about 70 million of the 110 million households in the U.S.A., and expect to have high bandwidth cable facilities upgraded to be available to over 90% of their cable customers by end of year 2003. Industry analysts project that anywhere from 30% to 90% of all cable customers will become subscribers o interactive TV and online broadband services by 2003. Through their upgraded plant, the cable operating companies will change over their analog TV signals to digital TV signals, and have the bandwidth capacity to offer in the range of 500 channels of digital TV, But we try to offer a suitable solutions to the public to reduce the cost for them.

2- Internet Lines

The 56 k byte is the common line of the internet, and commonly used globally due to the low cost of its usage.

The DSL internet line have an approximately 400,000 subscriber in the United Arab Emirates, and DSL lines is expected to grow from the current 10 million to over 40 million subscribers by 2003 in the USA.

Thousand of new digital TV and video production companies are expected to be formed to create programming for the hundreds of available new channels in the cable service areas and the millions of Internet sites that can be enabled with online video services, and all of them will need new video content.

The huge numbers of films basis on the high quality only can found in the cinemas and the companies having TV cable. We aimed to open a new way to transfer the films or direct broadcast and / or video on demand, through the Internet. As this will have a high and immediate impact on the public. There are millions of contents on the digital TV channels and on the Internet, there are increased demand on these sites to increased the interested of the views, also there are vide commercials and other commercials which covered the local events.

3- The prior art in the field of network basis on remotely controlled of the switch:

Any person can automaticly remotely controlled to make any device on or off either the device was a -PC, TV, Video or any other device connected to the network through the internet by computer connecting , which allowed the users to

browse the internet sites, enter to the data sites, beside the internet could be used as remote control environment to open / close the electrical system, as on PC, TV or video.

4- The prior art in the field of Satellites and Receivers

The using of satellites and receivers well known as prior art, as there are a lot of satellites such as: Arab sat, Euro Sat which broadcast the movies and TV and Radio programs , covering a wide area . By receiving the required form the ground station , then the satellites resend to the subscriber which having a receiver with chip includes the subscriber code, connected to the TV, PC with TV or Video card. As examples of the satellites in the prior art . AL THURAIA system which coming from the United Arab Emirates and covered an increased number of the countries.

Summery of the Invention

The present invention aims to provide us with a system to broadcast or TV channel through a main authorization server connected with the internet to receive the required from the internet the transferred to the processing server, the processing server will transfer it to the main video server , which includes the live commercials provided by various feeding sources in different locations of the production companies as example. The main video server having the previous recorded video and provided by other sources, in addition to the live feeding of the video provided by site camera to send these programs through TV cable, digital cable or receiver through satellites, this done by the main authorization server which connected with the internet to receive the demands through the internet from the entry party to enter to any program on the web site , and this option open to the all subscribers on the net. On the web site there are too much information about the site, also there are various options such as: the option, of live, previous recorded video, video on demand , or others, and the user could be chosen upon his desire, and through the main

authorization server, and the main video server which contains the list of video sources available on the web site and connected to the IP address to the home site of the network. The subscriber entering to this site to find the video feeding and to ask for entering agreement to enter to the required feeding video site, in addition, the user enter to code or TV cable, digital , or the chip of receiver and / or decoder which he has. To receive the broadcast through satellites and the authorization server as mentioned before then transferred to the processing server, then to the main video server , then to distribution server which connecting with cable, digital TV cable, receiver, to be connected finally with personal computer PC having TV card to display the programs on the PC screen, receiver connected by cable to TV , and the program will be seen, as the picture will have a very high resolution and clarity in sound. By this way we outdo the disadvantageous into the transferring of the sound and pictures of any video program directly form the internet with less cost, specially on the peak time on the internet, when the uses of the internet lines increased , and this lead to the speed of the transferring into the internet, and accordingly effected on the quality, beside it should be reload on the computer, which taken time, and some times due to some technical problems in the computer , the computer coming down. We avoided these above aforementioned disadvantages.

It is possible also to make a computer price table to computerization charges of the entry party to any program of the main center of the movies, either the event was direct, recorded video, video on demand , and this can be achieved by subscribing into the system or by using the smart cards.

Brief Description of the drawings

Figure (1): Illustrate a diagram to an international network of a video feed management system, as on the US patent US6564380.

Figure (2): Illustrate the feeding of the main video from the local video server to the main video server. as on US the patent US6564380.

Figure (3): Illustrate the recalling of the required program from the PC with a TV card through the main authorization server connected with the internet, and ending on the new system to and excellent sound and pictures to be displayed on the PC with a TV card.

Figure (4): Illustrate the mechanism of the recalling of the program from the PC ending on TV through cable.

Figure (5): Illustrate the mechanism of recalling the program from the PC ending to be displayed on the TV through satellites.

Figure (6): Illustrate the mechanism of recalling the program from the PC ending to be displayed on the PC with a TV card through satellites.

Detailed Description of the Drawings

Figure (1): is a diagram of a video feed management system as on the US Patent US6564380, includes : master authorization server (100) with Point - Of - Presentations (POPs) (110) connected to video feed sources (120) as illustrated,

Figure (2): illustrate the feed list up dated by local POPs Master as on the Us Patent US6564380 through local POP video list server which including live video , stored video , video on demand , through the master video list server as

there are continues connection between the local servers and the main servers.

Figure (3): Illustrate the recalling of the required program from the PC with a TV card through the main authorization server connected with the internet , to be end on the new system with an excellent sound and picture , and the required displaying on the PC with TV card. When the user opens the computer with a TV card , browse the web site on the internet , he chooses the required by click on the required option where the authorization server connected with the internet to receive the required program and send it to the processing server, which transfer to the main video server having a live broadcast, recorded video, video on demand can be recalled through the IP address then the video server sending the required program to the distributor server which delivers the program to PC with TV card.

Figure (4): Illustrate the recalling of the required program from PC and ending through cable to TV , when the user opens the PC, and browsing the web site , the user click on the required program , and the authorization server which connected with the internet receives the required and send it to the processing server, which transfer it to the main video server including live broadcast, recorded video, video on demand can be recalled through the IP address then the video server send the required program to the distribution server, which delivered the required through the cable.

Figure (5): Illustrate the recalling of the required program form the PCT and displaying on the TV through Satellites. When the user opens the computer, and upon browsing the web site , he choosing the required program by click on it, and whereas the authorization server connecting with the internet to receive the required program and send it to the processing server, which send it to the main video server including live broadcast, recorded video and video on demand through the IP address then the video server send the required program to the distribution server, which

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sending the required program to the send broadcast which send it to the satellite which received by receiver or decoder having chip to be end on the TV.

Figure (6): Illustrate the possibility of recalling the program from the PC and displayed on PC with a TV card through the satellite, when the user opens the computer and brows the web site, he click on the required program , then the authorization server which connected with the internet received the required program , and send it to the processing server, which transferred to the main video server, contains: live broadcast, recorded video and video on demand. This can be recalled through IP address then the video server send the required program to the distribution server, which send the required program to grand broadcast station , then the grand broadcast station accordingly send the required to the satellite , which resend the program into the receiver or decoder with a chip to end to a PC with TV card.

Detailed Description of the Invention

The following description describes a preferred embodiment of a video feed management system which include live video, recorded video, video on demand through the internet in a practical way with a new operation system, commencing from the PC , when the user browsing the web site , there are many options on the site as : live event, by clicking on the required option, the authorization server connected with the Internet receives the required program and send it to the processing server, the job of the processing server, to open and close the main video server which having a live event, recorded video or video' on demand. The feeding of the main video server as described in the prior art in US Patent US6564380 . The main server connection with the distribution server, which delivered the required through TV cables either digital or signals , or satellite with receiver and / or decoder having a chip includes the user code defined by the authorization server previously on the net.

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However, it is possible to use an extra numbers from servers depends on the requirement of the system.

Referring to Figure (5) which illustrate the possibility of receiving Video broadcast or TV channel on TV through the satellites , through authorization server connected with the interned to receive the required program, i.e. by choose the desire program through the main authorization server on the web, upon choosing the required program , the authorization server send an order to the processing server which send it to the main video server then to the distribution server , which send the required program to the satellite through the ground broadcast stations. The satellite then by his role resend the required matters to the user though receiver and / or decoder which a chip stored the user code, to be connected with a TV or PC having a TV card. As there will be channel or channels on the satellite networks to such broadcast, and each user can be known by the user code on the chip , and found on the receiver / decoder.

We can notice form this system that when we open the web site of any site , there are various options such as live event, recorded video, video on demand, which contains the transfer and use the contents to produce the digital video, TV programs, pay & watch , medical conferences , long distances education, conferences, advertisements, customer services, selling, E-commerce, etc. the delivery online to the users in any place through the internet. The use of the system depends on what the public want online immediately, the experience , the highly quality content of the video important for the work. Using of video content which covering the local and live event in any place. Any in site camera or computer camera can change the computer camera format into TV displaying format or digital format.

Based on the invention, by using of. PC through main authorization server and local POP server on the web site connected with the IP address. The main web site is the

home site of the system network, and is the site where the subscribers can find the feeding video sites, beside that the user enter the code of the TV cable, digital cable or chip code on the receiver and / or decoder, which transferred to the processing server, then to the main video server , then linked to the cable, TV digital cable to be ended with TV or PC with TV card, and the distribution server linked to the broadcast station and send it to the satellite then the broadcast can be picked through receiver and / or decoder, which linked with PC having a TV card or with TV direct to see the required program through the internet on the TV.

In our system, we can choose the required subject from the main authorization server which found on the web site on the internet to be send through Cable, Digital Cable or Satellite to end with TV screens or PC having TV card to receive the TV channels or video. On the prior art , the watching of these programs on the internet through the video web. But in our system it is possible to use the connecting of 56 or 28 k byte modem or other, due to the low cost of this kind of connection through the internet or other high speed connection due to the desire of the subscriber . To chose the required program through the main authorization server which given the order to the processing server to send the required subject through TV cable, digital cable, receiver to receive the broadcast through the satellite connect with TV or PC having TV card see the required subject and distinguish by its low cost.

Our mentioned system can be worked and broadcasted from any exciting satellite stations, as it broadcast the required programs and matters upon the user choose the required from the web site , either these stations sending the broadcast through the satellites or by TV broadcast to receive the broadcast by receiver and / or decoder.

CLAIMS

1- Method and system to broadcast a TV channel or Video on PC through the main authorization server connected with the internet to receive the required subject or program through the internet to end the required through TV cable or digital on PC having TV card to receive the required. The system and method illustrate the recalling of the required from the PC with a TV card through the main authorization server connected with the internet , The new system end to an excellent sound and picture with no need to load or reload. The required displayed on the PC with TV card. When the user opens the computer with a TV card , browse the web site on the internet, he chooses the required by click on the required option where the authorization server connected with the internet to receive the required and send it to the processing server, which transfer to the main video server having a live broadcast, recorded video, video on demand can be recalled through the IP address then the video server sending the required program to the distributor server which delivering the program through cable to a PC with a TV card.

2- Method and system to broadcast a TV channel or Video on TV through the main authorization server connected with the internet to receive the required subject or program through the internet to be ended through TV cable or digital cable linked with TV. The system and method illustrate the recalling of the required program from PC and ending through cable to TV. The new system end to an excellent sound and picture with no need to load or reload, when the user opens the PC, and browsing the web site , the user click on the required , and the authorization server which connected with the internet receive the required and send it to the processing server, which transfer it to the main video server including live broadcast, recorded video, video on demand can be recalled through the IP address then the video server

send the required program to the distribution server, which delivered the required through the cable to TV.

3- Method and system to broadcast a TV channel or Video on TV through satellite through authorization server connected with the internet to receive the required subject or program through the internet to be ended through receiver and / or decoder linked with TV . The method and system illustrate the recalling of the required program from the PC and displaying on the TV through Satellites with an excellent sound and picture with no need to load or reload. When the user opens the computer, and upon browsing the web site , he choose the required by click on it, and where as the authorization server connecting with the internet to receive the required and send it to the processing server, which send it to the main video server including live broadcast, recorded video and video on demand through the IP address then the video server send the required to the distribution server, which sending the required to the send broadcast which send it to the satellite which received by receiver or decoder having chip to ending to TV.

4- Method and system to broadcast a TV channel or Video on TV through satellite through authorization server connected with the internet to received the required subject or program through the internet to be ended through receiver liked with PC having TV card. The system and method illustrate the possibility of recalling the program from the PC and displayed on PC with a TV card through the satellite, the displayed program with an excellent sound and picture with no need to load or reload, when the user open the computer and browsing the web site. he click on the required , then the authorization server which connected with the internet received the required , and send it to the processing server, which transferred to the main video server, contains: live broadcast, recorded video and video on

demand. This can be recalled through IP address then the video server send the required to the distribution server, which send the required to grand broadcast station , then the grand broadcast station accordingly send the required to the satellite , which resend the program into the receiver or decoder with a chip to end to a PC with TV card.

5- Method and system as on claim No.1 and / or 2 and / or 3 and / or 4 to broadcast the video or the TV channel on TV or PC having TV card through authorization server connected with the internet, the system have:

a- Personal Computer

b- Main authorization server connected with internet to received the demands through the internet.

c- Processing system, connected with main authorization server to operate the main video server.

d- Main video server, having live video, recorded video, video on demand , the operating of these programs can be achieved upon the received order from the processing server.

e- Distribution server, whereas received the required programs through the main video server to submit the required parties through the TV cables or digital cables by the required program through internet.

f- Receiver to receive the bandwidth of the satellites of the chosen channels , which chosen from the internet by receiver and / or decoder having chip to reach the required from the internet to TV or PC with card to receive the TV channels or Video.

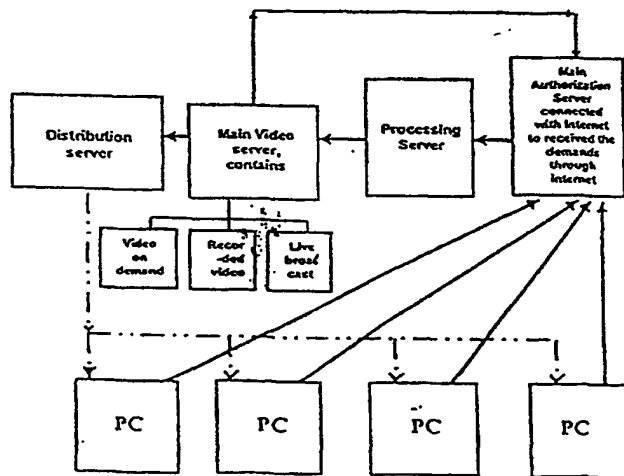
6- Method and system as claims from 1 to 5 , whereas the main authorization server on the web site connected with the IP address is the hoe site of the network system, and that is the site where the subscribers enter to find the video feeding and to request the entry to the site of the video feeding with cable code or chip code of the decoder and / or receiver.

7- Method and system as claims 1 and / or 2 and / or 3 and / or 4 distinguished by the saucers of the main video feeding through the above mentioned resources (live video, recorded video, on demand video).

System and Method to broadcast the Video or TV and displaying on PC or TV by choosing the required program from the Internet.

Abstract

System to broadcast the video or TV through the main authorization server connected with the internet to receive the required program through the internet, as the internet have a various sites such: News, Sports, Plays, Schools , business conferences , etc. from any requested party ask to enter to the web through the main authorization server by entering IP address and / or the code of the TV cable, digital cable or the code of the receiving decoder's chip through satellite to processing server , transferred to the main video server, then to distribution server which having the required subject and transferred it to the ordered through TV cable or digital cable or receiver through satellite whether to the ordered PC having TV card to watch the program, or in TV device.



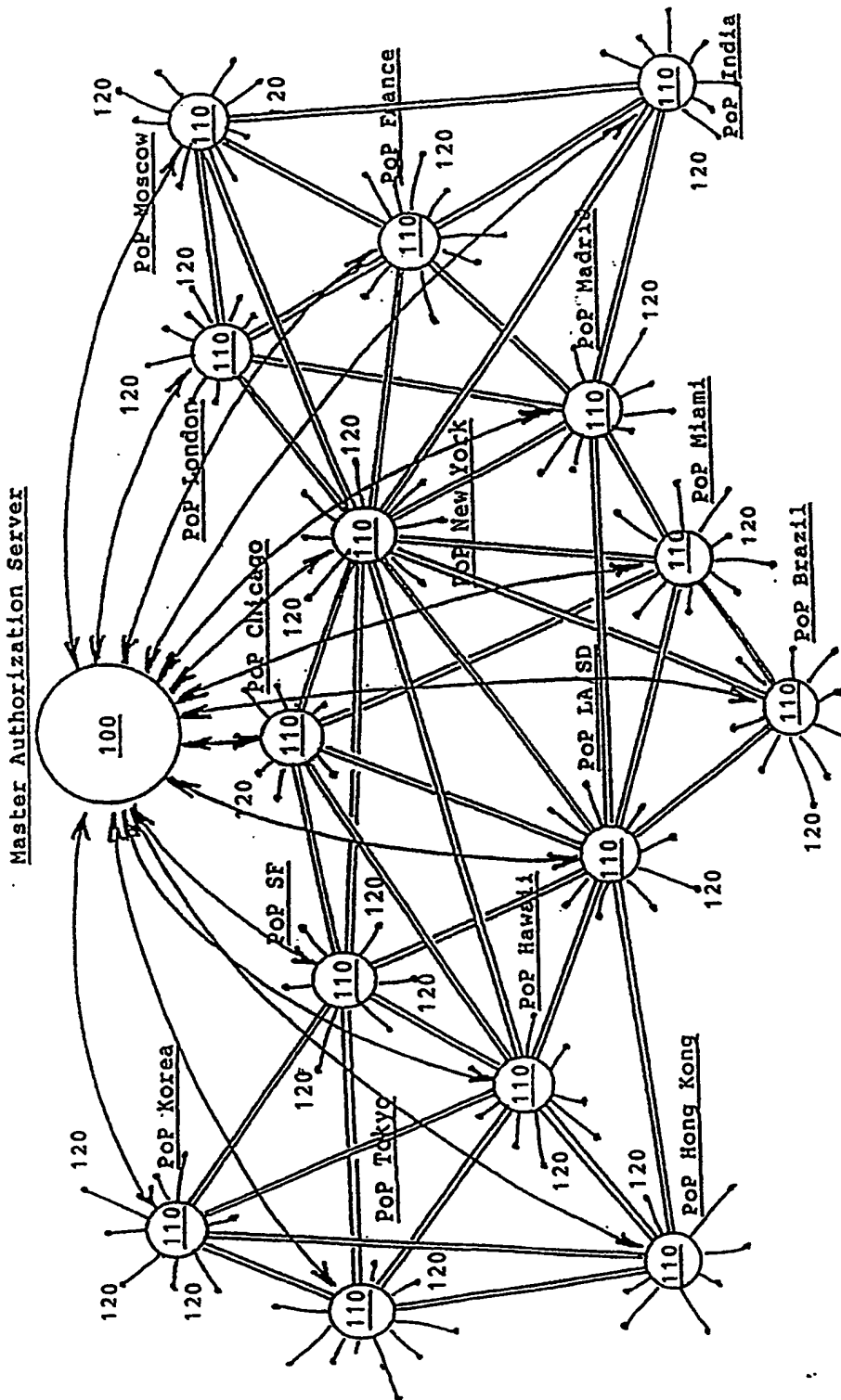


Figure (1)

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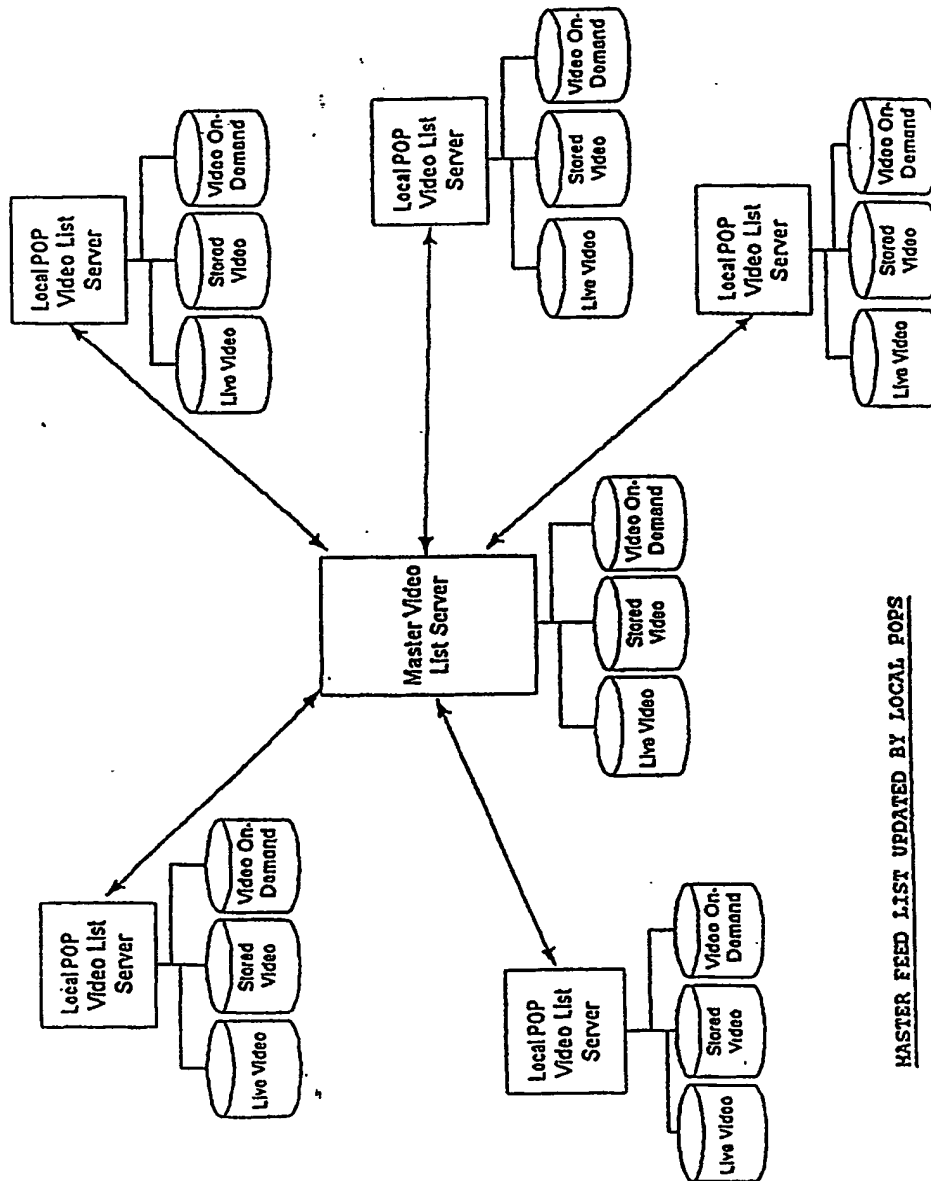


Figure (2)

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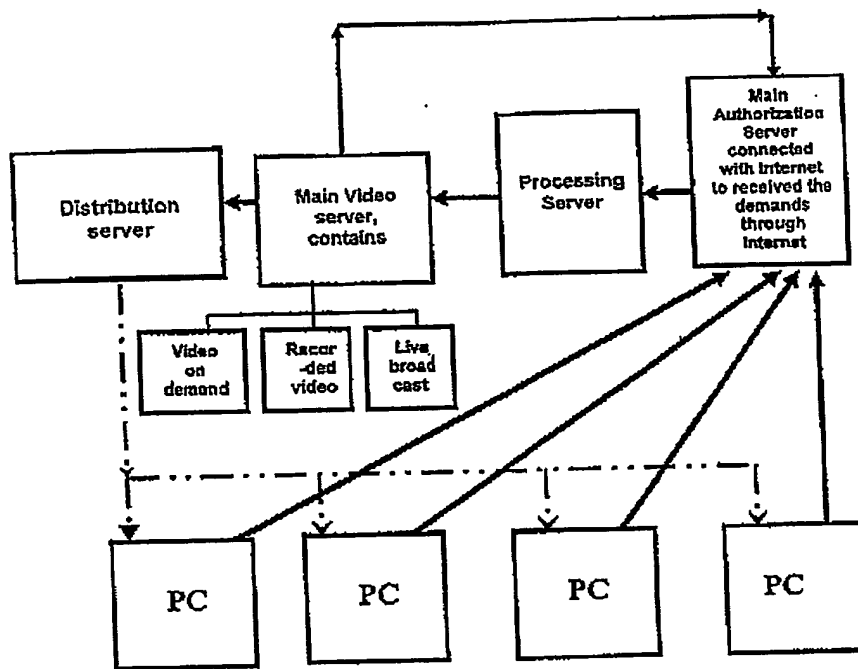


Figure (3)

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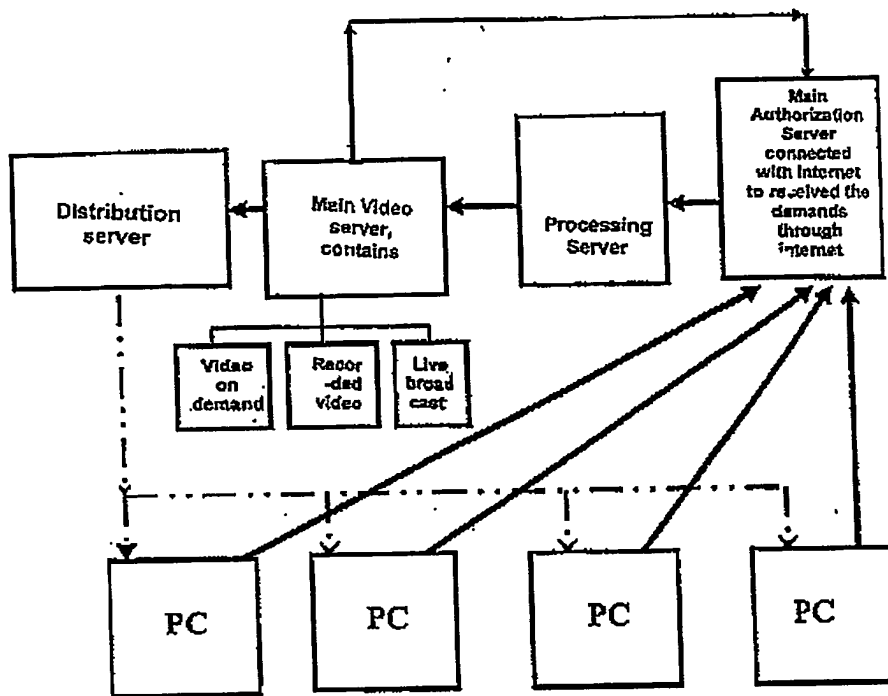


Figure (4)

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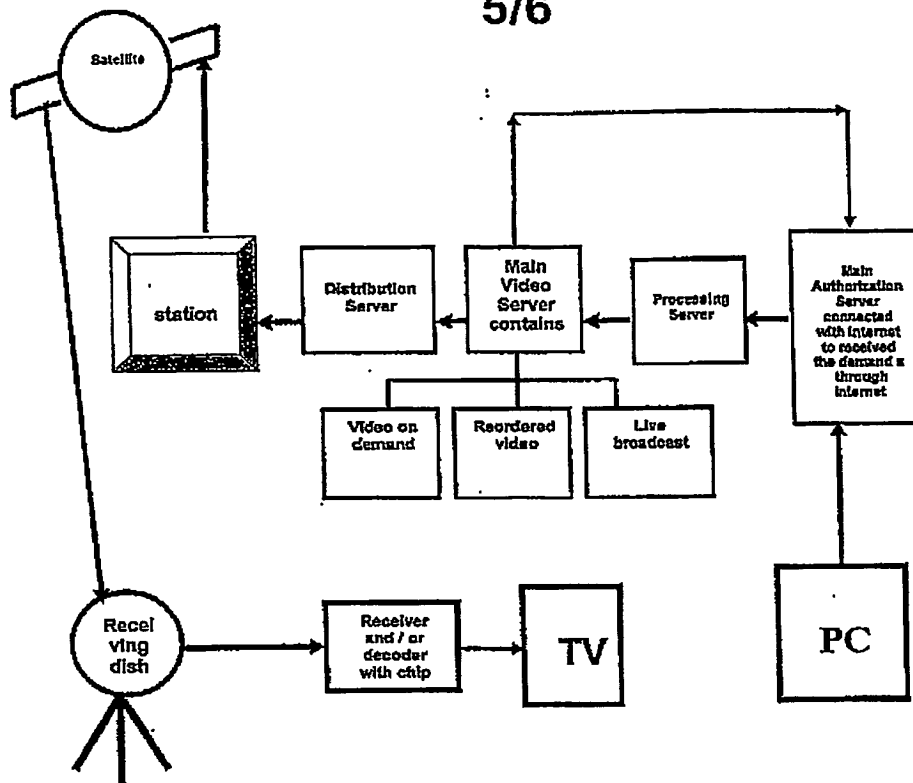


Figure (5)

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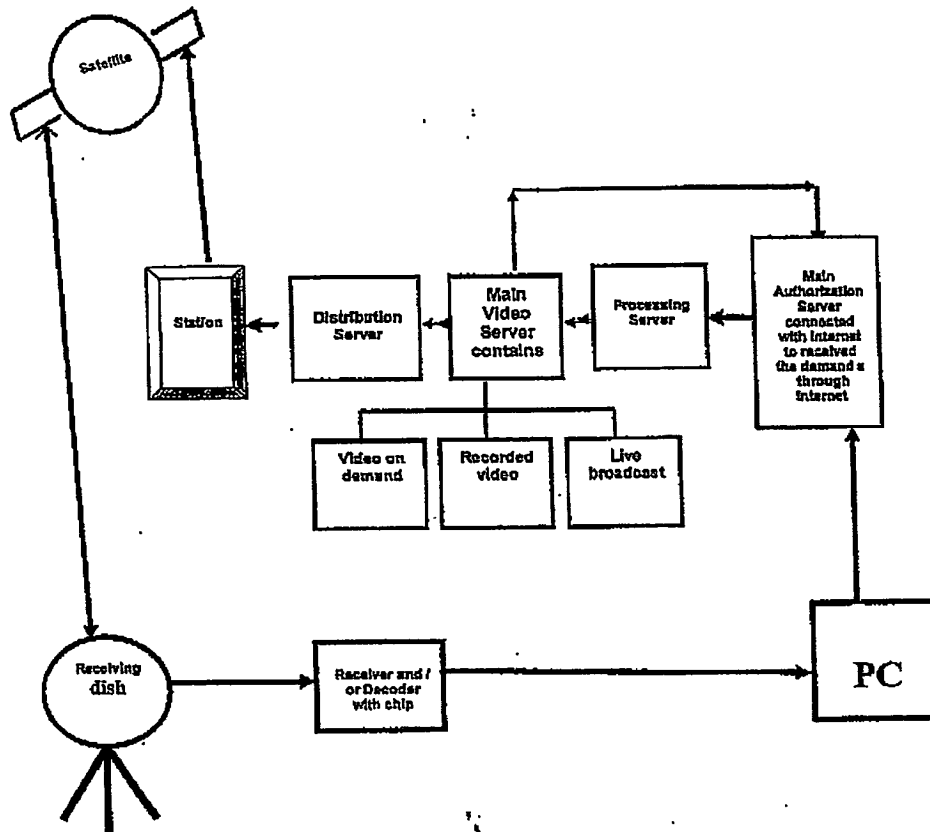


Figure (6)

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